

LISTING OF SPECIFICATION AMENDMENTS

Please insert the following as new paragraph [0057] starting at page 19, lines 28-32 of the specification:

From the foregoing discussion, specifically that both the temperature correction factor and the overheat factors are functions of the temperature, wherein $Y=F(X)$ is a divider correction, it is implicit that the bridge is being "disproportionately balanced", as opposed to proportional bridge balancing which is known in the art. Disproportionate balancing of the bridge means that there is a changing ratio of proportionality on the respective resistive elements on each divider as the temperature changes. In other words, the ratio of proportionality of the respective resistive elements on the bridge changes disproportionately with temperature.

Accordingly, please renumber former paragraph [0057] as paragraph [0058].

Please replace paragraph [0012] beginning on page 4, line 29 and ending on page 5, line 10 with the following new paragraph:

According to one aspect of the invention there is provided a thermal mass flowmeter comprising means for providing a flow ratio signal and a temperature ratio signal, the flow ratio signal and the temperature ratio signal having a ratio of proportionality that changes with temperature; means for applying an overheat factor to the flow ratio signal or the temperature ratio signal, means for applying a temperature correction factor to the flow ratio signal or the temperature ratio signal, the temperature correction factor being determined by a predefined function of a temperature of a fluid, and means for disproportionately balancing the

flow ratio signal and temperature ratio signal when the ratio of proportionality changes with temperature.

Please replace paragraph [0013] beginning on page 5, lines 11-22 with the following amended paragraph:

According to another aspect of the invention there is provided a method of calibrating a thermal mass flowmeter, the method ~~includes comprising~~ the steps of sequentially operating the flowmeter with a fluid at two or more predetermined temperatures and at a predetermined fluid flow rate, determining respective values of a temperature calibration factor at each temperature, and determining parameters of a function using the respective values of the temperature calibration factor and values of the temperature, wherein the function defines a relationship between the temperature of the fluid and a temperature correction factor, and wherein the step of determining respective values of the temperature calibration factor comprises a step of balancing a flow ratio signal and a temperature ratio signal at each temperature using the respective temperature calibration factor.

Please replace paragraph [0014] beginning on page 5, line 23-32 and ending on page 6, line 2 with the following amended paragraph:

According to still another aspect of the invention there is provided a method for determining a flow rate of a fluid ~~including comprising~~ the steps of: thermally connecting a bridge to the fluid, conditioning signals from the bridge using a signal conditioner to provide a flow sensor signal and a temperature sensor signal, wherein a ratio of proportionality between the flow sensor signal and the temperature sensor signal changes over a

temperature range; applying an overheat factor to the flow sensor signal or the temperature sensor signal, applying a temperature correction factor determined by a predefined function of a temperature of the fluid to the flow sensor signal or the temperature sensor signal, wherein the overheat factor corrects for a changing ratio of proportionality between the flow sensor signal and the temperature sensor signal resulting from changes in temperature; applying a temperature correction factor, determined by a predefined function of a temperature of the fluid, the temperature correction factor being applied to the flow sensor signal or the temperature sensor signal; and balancing the ratio of proportionality between the flow sensor signal and the temperature sensor signal as the ratio of proportionality changes with temperature by providing a bridge signal to the bridge.